

# Notice of Allowability

Application No.

10/609,275

Examiner

J. Derek Rutten

Applicant(s)

GROVER ET AL.

Art Unit

2192

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Amendment After Final 4/20/06.
2. ☒ The allowed claim(s) is/are 1-12, 15, 16, 18-22, 25-31, and 54-70 (renumbered 1-43).
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.


Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
  5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
      - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
    - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

  
TUAN DAM  
SUPERVISORY PATENT EXAMINER

### **DETAILED ACTION**

1. This action is responsive to Applicant's amendment dated 04/20/2006, responding to the 02/22/2006 Final Office action provided in the rejection of claims 1-13, 15-23, and 25-55, wherein claims 1, 2, 5-12, 15, 18-22, 25-31, and 55 have been amended, claims 13, 17, 23, and 32-53 have been canceled, and new claims 56-70 have been added. Claims 1-12, 15, 16, 18-22, 25-31, and 54-70 remain pending in the application and have been fully considered by the examiner.

### ***Allowable Subject Matter***

2. The cited prior art taken alone or in combination fail to teach, in combination with the other claimed limitations, a source language independent intermediate representation that explicitly expresses exception handling control flow comprising a first instruction for indicating entry into a try-except region; and a second instruction for selecting a control flow path related to resumption of execution of an instruction causing a first exception; wherein the second instruction comprises an operand indicative of the type value of the first exception; and label operands indicative of a handler code block, a continuation code block, and the exception causing instruction. These limitations are present in independent claim 1.

Also, the cited prior art taken alone or in combination fail to teach, in combination with the other claimed limitations, a source language independent intermediate representation that explicitly expresses exception handling control flow; wherein exception handling constructs comprise a first instruction for expressing explicit transfer of control to a finalization code block, a second instruction for expressing acceptance of control transfer into the finalization code block,

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and a third instruction for expressing transfer of control out of the finalization code block; wherein the third instruction comprises fields for indicating different continuations for control transfer out of the finalization code block based on whether entry into the finalization code block was explicit or due to an exception, wherein the continuation for control transfer out of the finalization code block after an explicit entry matches a continuation specified by the first instruction. These limitations are present in independent claim 15.

Also, the cited prior art taken alone or in combination fail to teach, in combination with the other claimed limitations, a source language independent intermediate representation that explicitly expresses exception handling control flow; wherein generation comprises: reading an intermediate language code stream and associated exception handling clauses from the intermediate language representation of the source code file; based at least in part on the exception handling clauses, determining containment relationships between protected code blocks and their associated exception handler blocks; based on the containment relationships, assigning distinctive labels to the exception handler blocks; based on the assignments, mapping the distinctive labels to their associated protected code blocks and exception handler blocks; and building the source language independent intermediate representation using, at least in part, a set of source language independent exception handling instructions and the mappings. These limitations are present in independent claim 55.

The distinctions provided by the independent claims apply equally to all dependent claims. Thus all pending claims 1-12, 15, 16, 18-22, 25-31, and 54-70 are allowed.

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***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to J. Derek Rutten whose telephone number is (571) 272-3703. The examiner can normally be reached on T-Th 6:00-6:30, F 6:00-10:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tuan Q. Dam can be reached on (571) 272-3695. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

jdr



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